

## ABSTRACT

Methods and tools for quickly and accurately performing complex customer benefit modeling for an electronic components assembly system are disclosed. In one embodiment, predefined user interfaces allow a consultant, customers, salespersons, or line designers to input a line configuration by selecting from a list predefined objects that represent specific line components. In addition, the user inputs other line configuration data specific to the line being configured. The information contained in the user interface is extracted for use a discrete event simulator. Templates for simulation objects may be created in advance and populated with data from the input interface. A simulation is built and run. Simulation results may be exported to an output means, which may allow for custom generated reports. The reporting means may include a means for allowing customer specific information and data to be inputted.

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